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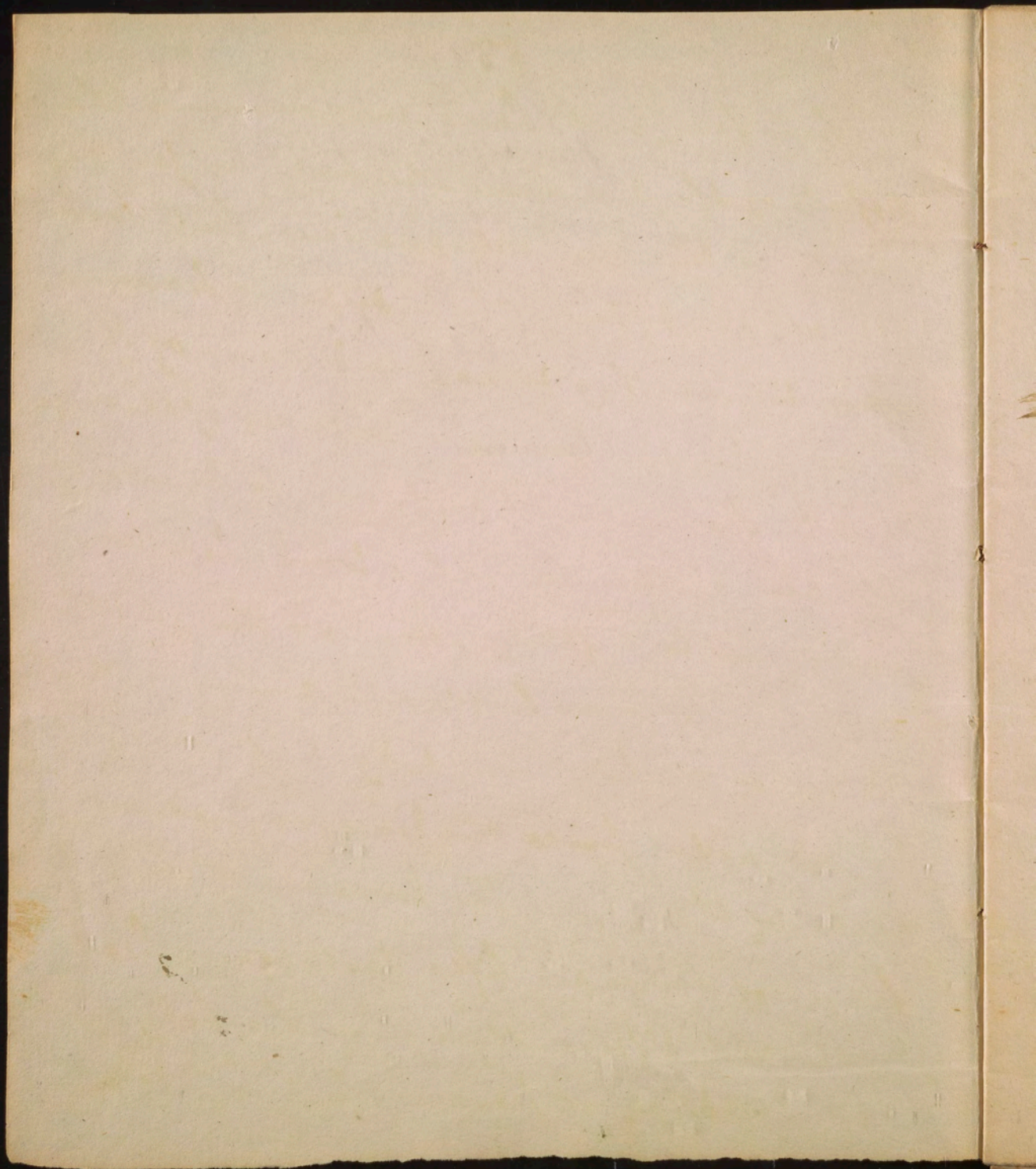
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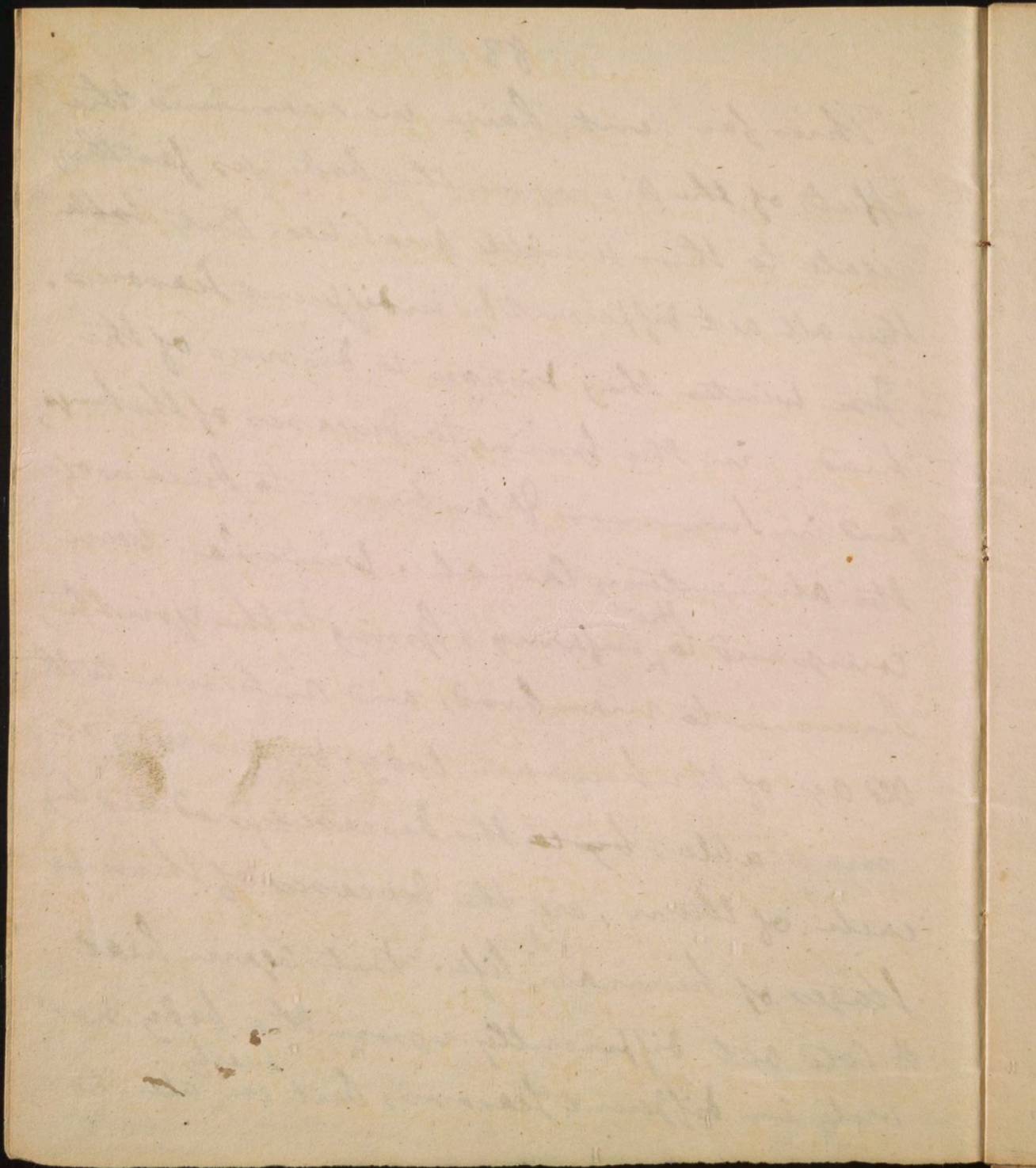
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on the effects of winds,
and on the relative influence of
seasons & months upon
human life.



Thus far Gent. have we examined the effects of the Air upon the body as far they relate to their sensible qualities. But ~~both~~ they all act differently in different seasons. ~~In~~ Winter they dispose to diseases of the head - in the Spring to diseases of the lungs, and in Summer & autumn to diseases of the alimentary Canal. Winter has been compared to ^{the} infancy, Spring to the youth, Summer to manhood, and autumn to the old age of the human body, & it is very remarkable, ~~by~~ the diseases produced by each of them, are the diseases of those 4 stages of human life. But again heat & cold act differently upon the body, not only in different seasons, but in ^{nearly} all the



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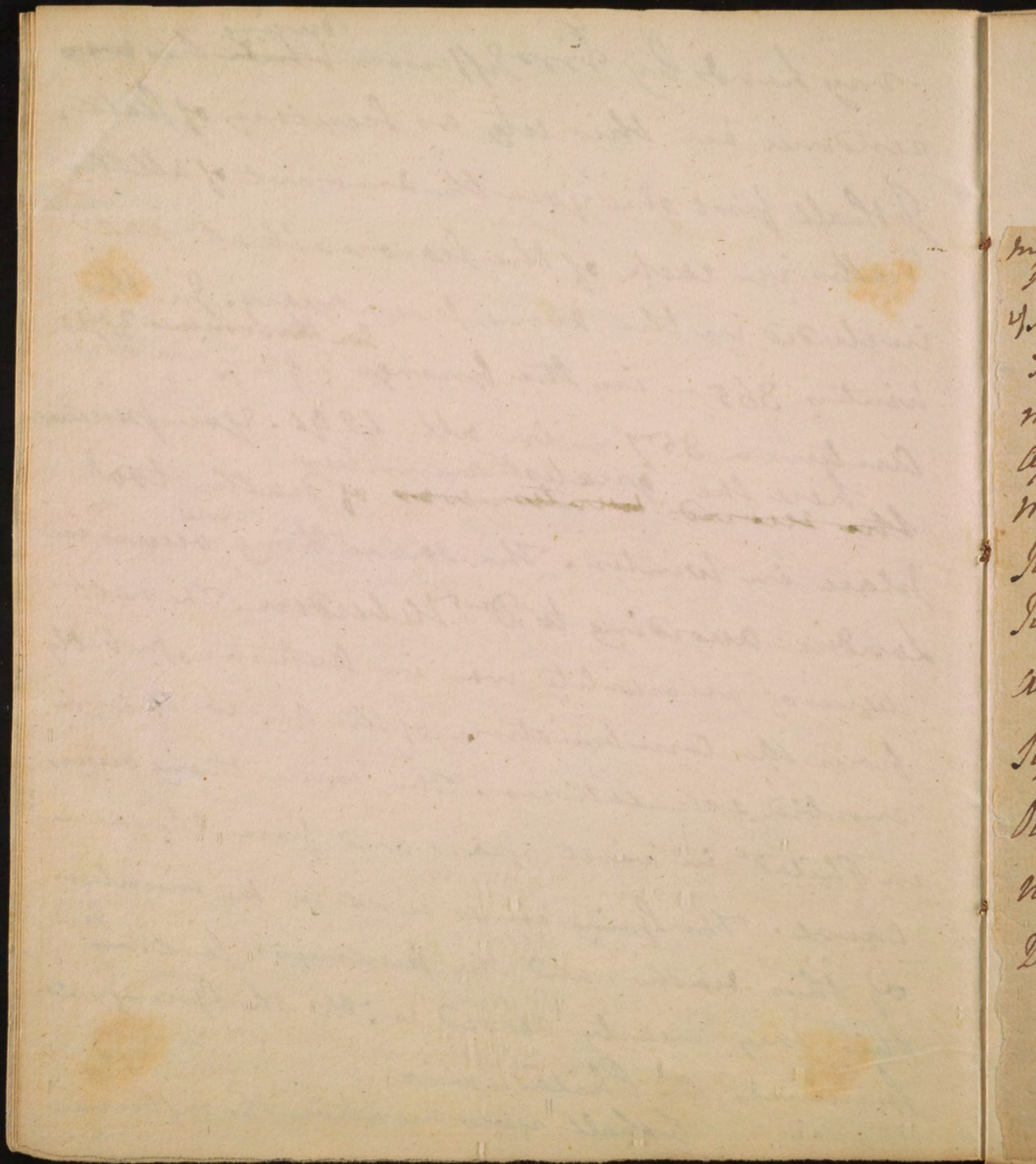
Months in middle latitudes. They act differently in towns & countries, & in cultivated & uncultivated parts of the world, the latter but in both all of them their effects are more or less influenced by the combination of the Air with certain morbid exhalations, ~~of the Air~~ - which will be taken notice of under our next head.

To exhibit the influence of the seasons and months in a Climate nearly similar to our own, I shall furnish you with an extract from a journal of the Deaths from Sickness in the parish of St. Nicholas in Bologna in France upon the Sea shore in the latitude of 50° between the years 1776 and 1783. It is taken from Dr. Daignanis tables of the Variety of human life - a curious & valuable book put into

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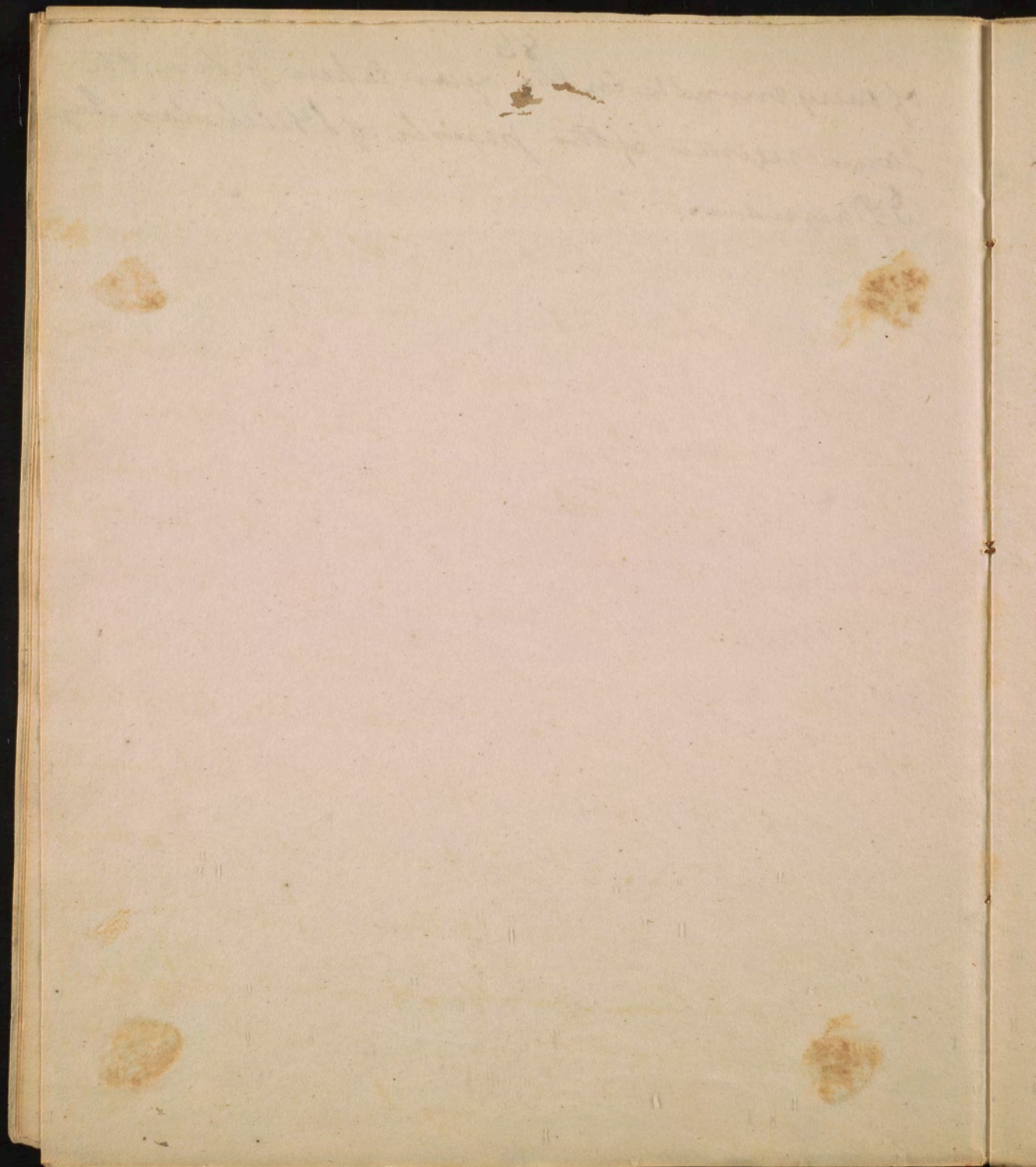
my hands by ^{Dr} Jefferson ^{during} ~~while~~ his ~~was~~
residence in this city as Secretary of State.
I shall first give you the amount of all the
Deaths in each of the seasons that are
included in the above seven years. In the
winters 365 - in the Springs ^{In the Summer 234.} 292 - in the
Autumn 357 - in all 1294. You perceive
~~the second~~ ^{here the greatest number} ~~was~~ of Deaths took
place in winter. The same thing ^{now} occurs in
London according to Dr. Libberson. The next
degree of mortality was in Autumns probably
from the combination of the air with some
morbid exhalations. The same thing occurs
in Philad^a in most years and from the same
cause. The Springs comes next in the number.
of these Deaths, and the summer is last. ^{In}
this way nearly accord with the Springs &
summers in Philadelphia.

I shall now mention the influence



of every month in the year taken from the
same register of the parish of St Nicholas by
Dr Daignan.

In the Months	Boys	girls	married men	married women	widowers	widows	all
4 Jan ^r 142	57	39	18	15	8	12	142
Feb: 111	40	35	16	12	4	4	111
march 112	42	27	9	9	12	13	112
April 108	30	31	17	13	7	10	108
May 107	31	29	10	14	9	14	107
June 77	21	27	8	11	1	9	77
July 72	20	23	11	9	3	6	72
Aug ^r 85	29	20	18	8	1	9	85
Sep ^r 120	36	35	12	24	3	10	120
Octob ^r 110	43	35	8	13	2	9	110
Nov ^r 125	42	34	10	19	5	15	125
Dec ^r 122	38	35	20	13	7	9	122
	429	370	150	160	62	120	



From a review of the influence of the weather
in each of these months it appears that the
most sickly of them was January. This is
not common in the middle States of America,
except from Epidemics, or in open winters.
The principal mortality in this month
when intensely cold is among old people &
hard drinkers. February & March appear to
have been attended with a good deal of mortality,
nor did it abate much in April. The
weather in these months is very variable, &
often proves fatal to Chronic patients, more
especially to persons affected with pulmonary
Consumption. The inflammatory diseases
of these months are seldom fatal in our
climate. ~~The months of~~ June & July were
the most healthy months in the year.
The same thing may be said of the

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Climate of Pennsylvania. The latter end of
July sometimes prove fatal to children, but
I have uniformly observed June to be the
healthiest month in the year in Philad.
Sydenham says the diseases of winter
spread themselves in June, & the diseases
of ~~winter~~ ^{summer} in February. Hippocrates says
makes the same remark, but in other
words - He says the diseases of winter are
seldom cured till midsummer, & the dis-
eases of summer seldom before the middle
of winter. Vanswieten tells us that the
regular ~~time~~ ^{period} for fevers to show themselves
for the first time is at the vernal, and
autumnal equinoxes, but that their
appearing sooner or later is influenced
by the weather - hence the former often
appear in February, & the latter late

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in August, or in the beginning of Septem^r.
in all the middle latitudes of our globe.
They are more frequently anticipated, than
postponed, according to Puzos in European
Countries. The Climate of Pennsylvania bears
witness to the truth of the remarks of Sydenham
& Hippocrates. Our Spring fevers bear the marks
of winter in the pulse & in the blood, and
our the fevers of December, January &
February ^{often} bear the marks of our summer
diseases in richness at Stomach - Discharges
of bile, and in a fallow skin. According
to this remark, the healthiness of the month
of June may be ascribed to kind of Solstice
in Diseases. They seem to rest from the
business of destruction for a few weeks, but
it is only to exchange one set of the weapons
of death for another.

The months of August ⁹⁰ were ^{fatal to life} more ~~likely~~ in
our table than July. This is generally the
case in Philadelphia.

The months of Sept^r October & November
were ~~also~~ attended with more mortality
than the three preceding months. I ascribed
this formerly to the ~~same~~ ^{influence} ~~as~~ ^{of}
marsh exhalation ^{combining with} the sensible qualities
of the air, ~~but~~ Perhaps as they were
aided by the cool nights which often suc-
-ced warm days in those months. I am
sure much of the increase of sickness ⁱⁿ
our city in Sept^r and October is from that
cause, for our citizens seldom lay aside
their summer clothes in those months,
& never change them with the coolness &
dampness of the evening air. The ~~like~~ ^{diseases}
which are induced whether by the changes

~~such as elevated & low situations,~~
~~the vicinity to the ocean or to large rivers,~~
~~& the woods & the nature of the soils,~~

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in the sensible Qualities of the Air, or by
putrid exhalations generally continued Un-
til frosty nights come on, unless heavy
rains should fall in the mean while, for
they both alike check bilious forces from
~~the latter cause~~ our Antennal powers.

~~For~~ I have thus given you a
comparative view of the influence of the sea-
sons & months in two parts of the world,
viz the Parish of St. Nicholas in France
& in one of the middle States of America.
But you are not to suppose they are the
same in all Countries. Many circumstances
to be mentioned hereafter, ^{but I hold}
~~which~~ influence the ~~temperature~~ ^{heat & cold} - the mois-
-ture & dryness - the density & rarity of the Air
- & its various impregnations, and ~~lastly~~
the ^{coarse and nature} ~~elements~~ of Winds, ^{in such a manner as to} ~~act~~ ^{powerfully}
upon the relative ~~of~~ healthiness and

✓ in the same seasons & months,
~~and~~ and in the latter, viz months, nearly in
the same latitude. I shall illustrate
this by a few examples. ^{I said} ~~In London~~
formerly that the winter was the most
mortal season in London. The summer
is the least so. [†] In New York it appears
from the register of deaths from the
year 1804 to 1808 inclusive, that the
most fatal season is Autumn, & the
least so winter. Again - in "

† Upon the shores of the Mediterranean Celsus
tells us "the Spring was the most healthy season
in the year - next to this the winter - next the
summer and autumn the most mortal season
in the year"

¶ In England the months are healthy in the following
order - July, August, June, Sept: Octob: Nov: May,
Decem: April, February, Jan & March. It
is nearly resembles the ~~best~~ relative healthiness
of the months in the parish of St Nicholas. -

~~The same persons & countries in~~
mortality of cities, towns & countries in
~~or nearly the same~~ ^{the same} latitudes. ~~located & low situations,~~
Illustrate this by a few examples ~~observed~~
from the cities of London - Liverpool and
York in England, and Montpelier in
France. ~~The~~ ^{in England the} most richly & fatal month
in London is January - in Liverpool
March & in Montpelier August. The
most healthy months in London and
York is July, - in Liverpool, August, and
in Montpelier, May. At Plymouth in

The table which I have read to you
will furnish some very useful remarks
upon the influence of the remote causes
on persons of different ages, & conditions
in life, but these will come in more
properly in the place marked for them in
our Bellabus.

